IOGCC Annual Business Meeting

Changing Role of U.S. Oil and Gas Hubs

May 9, 2017

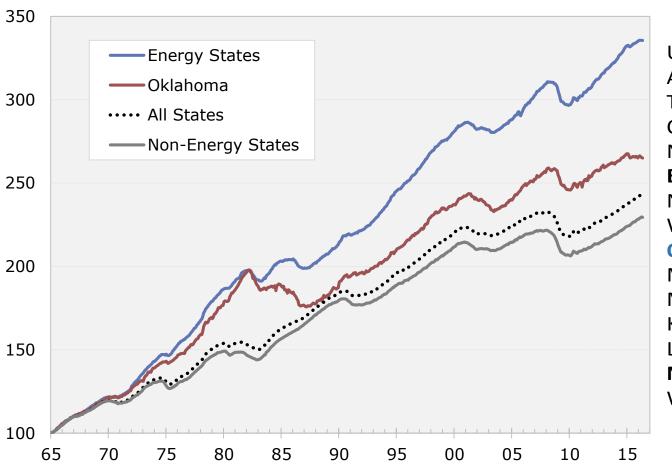
Mark C. Snead

President and Economist



Is it good to be a mining state in the long-run?

Total Wage & Salary Jobs – Energy vs. Non-energy states Index: Jan-1965=100.0



Utah	522.4
Alaska	500.5
Texas	453.2
Colorado	445.0
New Mexico	341.0
Energy	335.6
North Dakota	328.6
Wyoming	327.0
Oklahoma	286.2
Montana	275.3
Mississippi	253.6
Kansas	240.0
Louisiana	233.1
Non-Energy	229.4
West Virginia	180.4

Oil and gas hubs

Changing economic channels (with an OK flavor)

Leaders, movers, and waning hubs

Changing definition of an 'energy hub'

Corporate presence

Capital spending

Employment

Household income

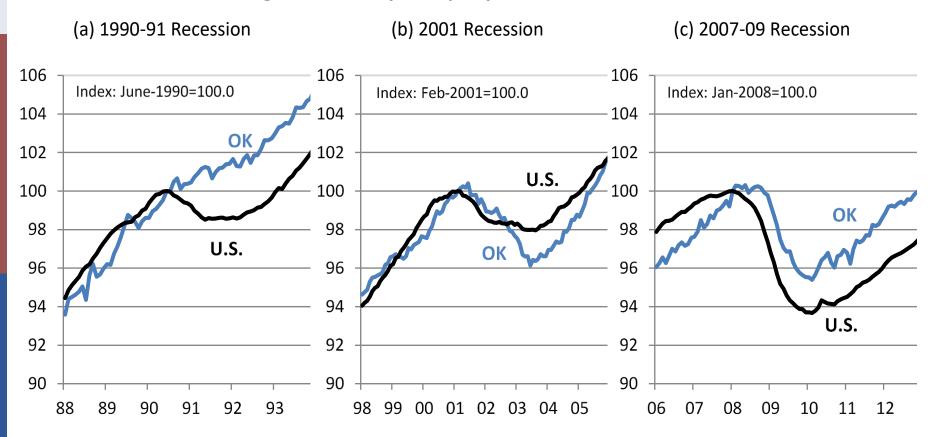
Tax contribution

 \longleftrightarrow

Cyclical sensitivity of each

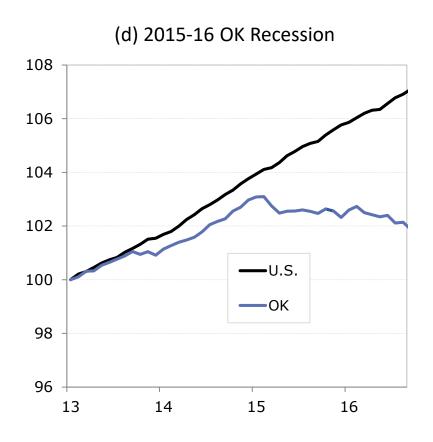
Oil & gas determines the overall economic cycle in energy hubs

Indexed Wage & Salary Employment – Oklahoma vs. U.S.



Oil & gas determines the overall economic cycle (cont.)

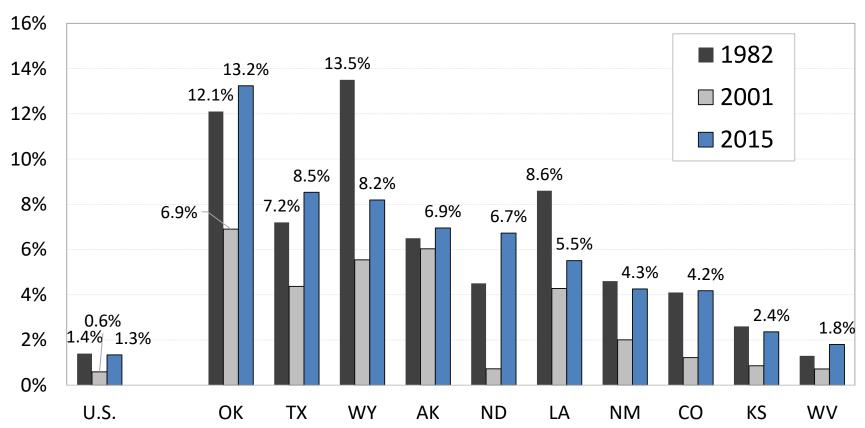
Indexed Wage & Salary Employment – Oklahoma vs. U.S.



For households, its more about earnings and less about jobs

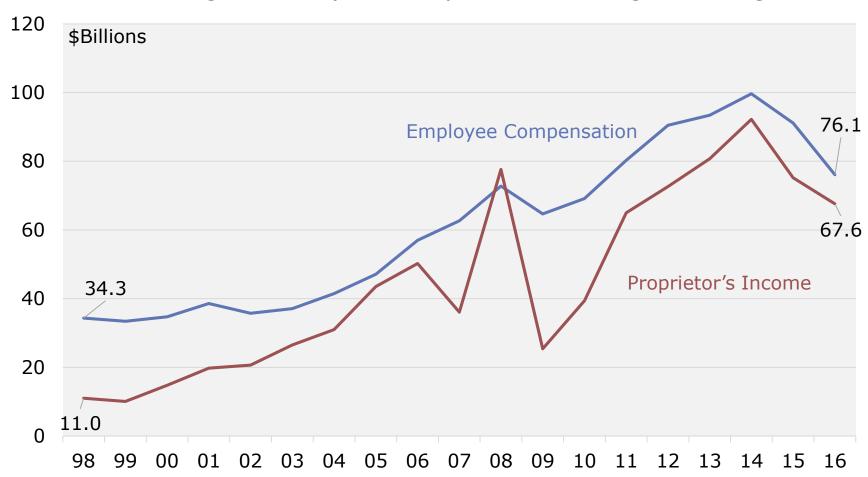
Share of Total State Household Earnings from Oil and Gas Industry

ranked by 2015 share, recent peaks and troughs in industry activity



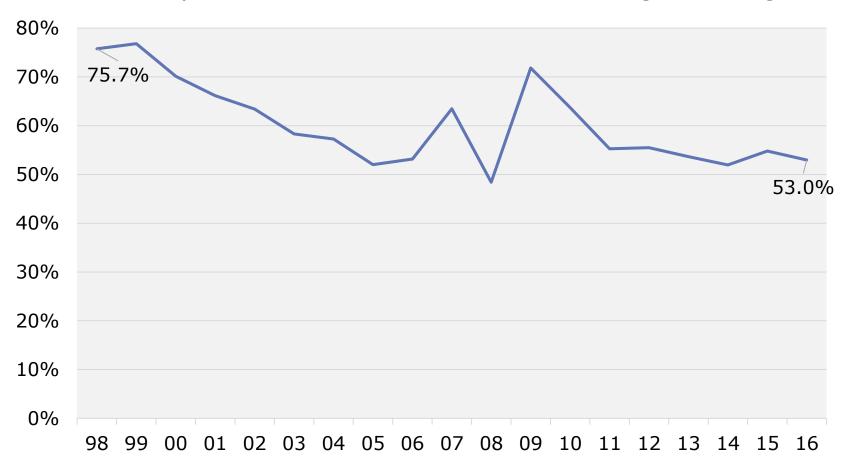
Proprietor's income approaching w/s compensation

U.S. Wage & Salary and Proprietor's Earnings – Mining

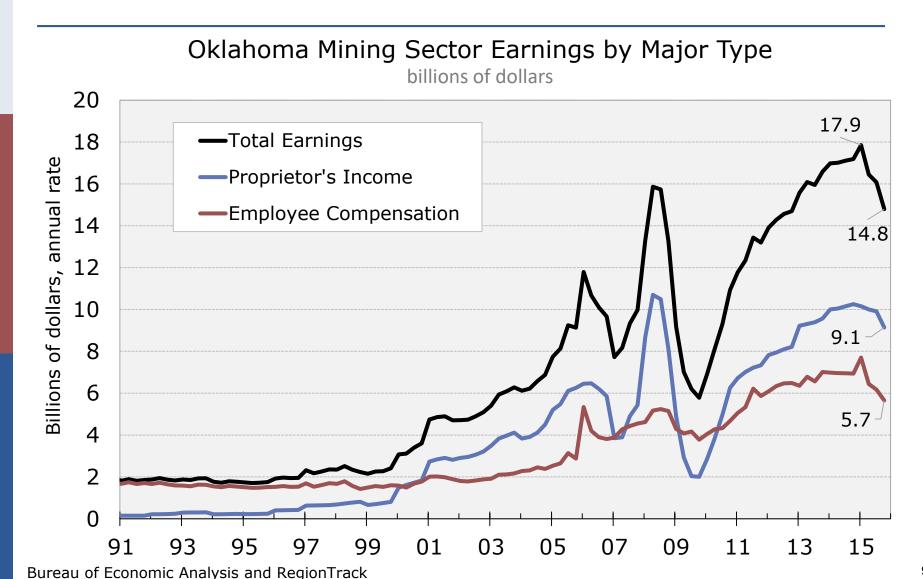


Proprietor income share to near 50%

U.S. Proprietor's Income Share of Total Earnings – Mining

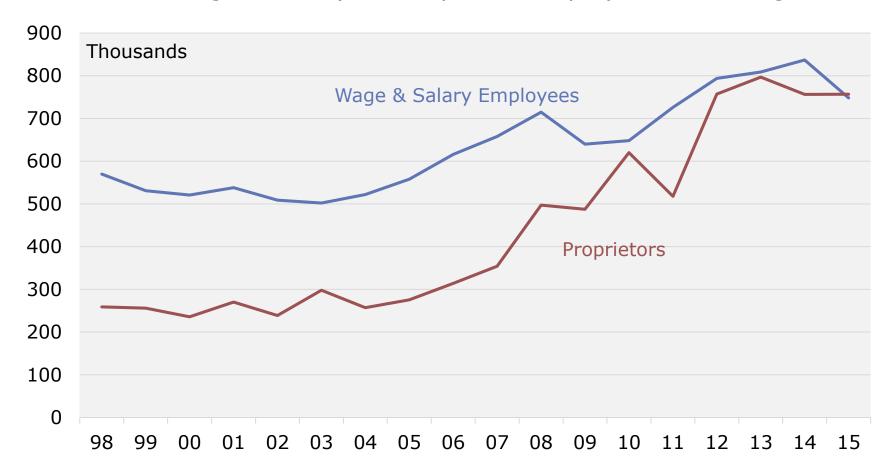


Proprietor's income is now the key component of oil and gas earnings in OK

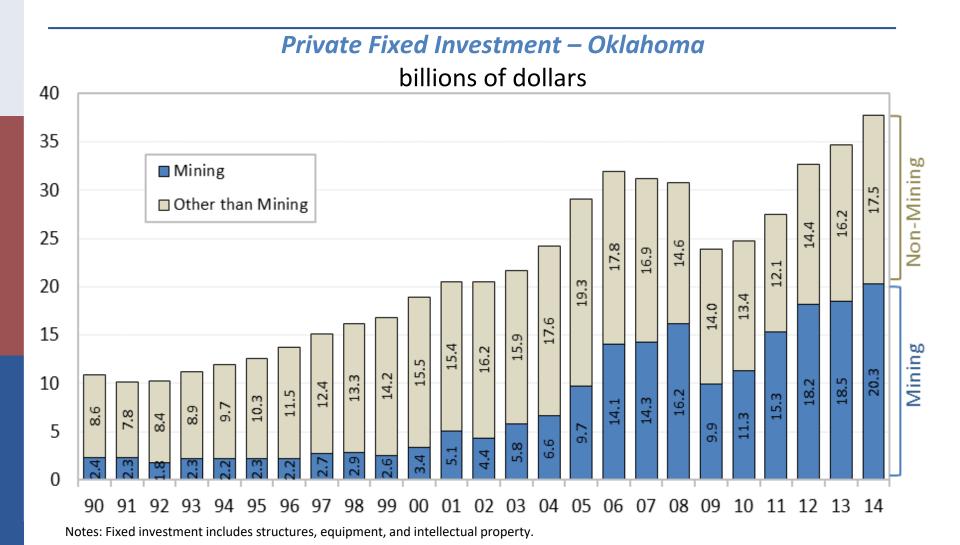


Proprietors now equal wage & salary workers

U.S. Wage & Salary vs. Proprietor Employment - Mining



Capital spending drives active drilling regions



Energy hubs bring added volatility

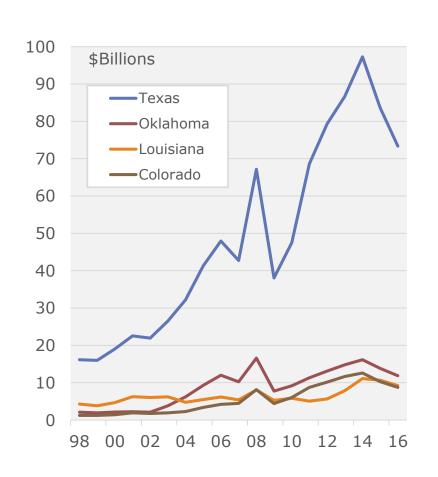
both the good and bad variety

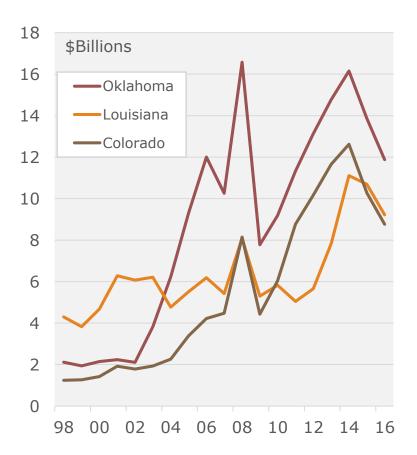
Oklahoma Tax Revenue and Employment



The current Big-4 by total mining earnings

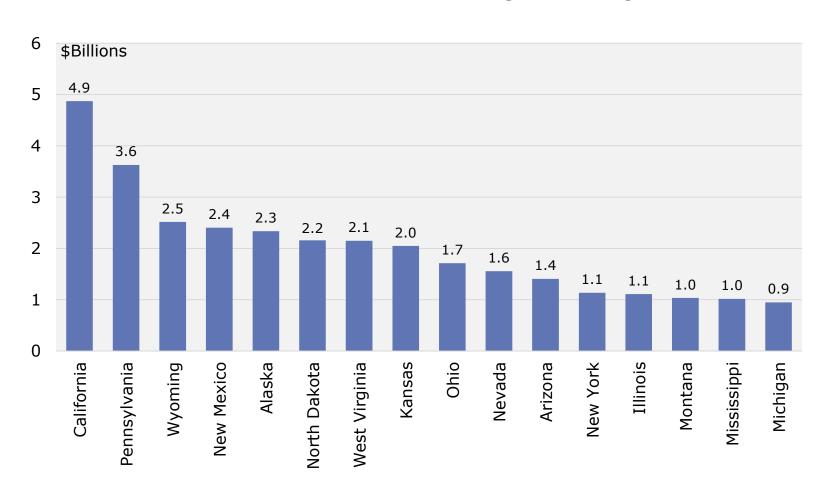
Total Household Earnings - Mining





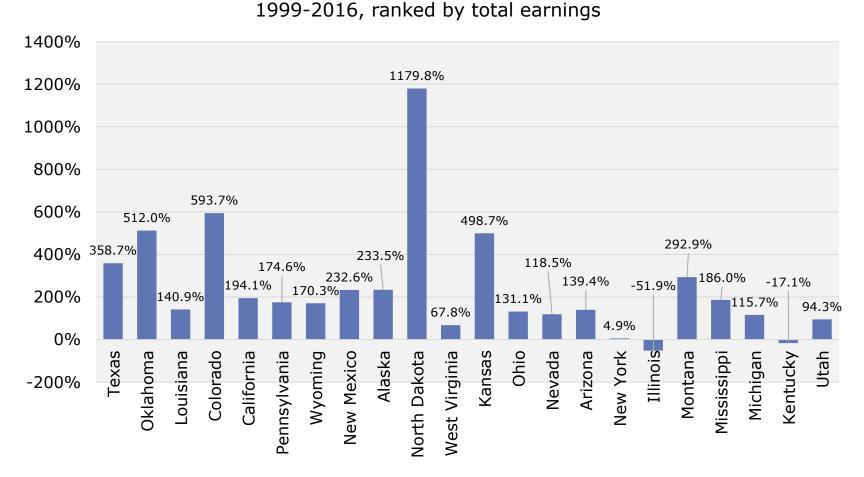
The contenders by total mining earnings

Total Household Earnings - Mining

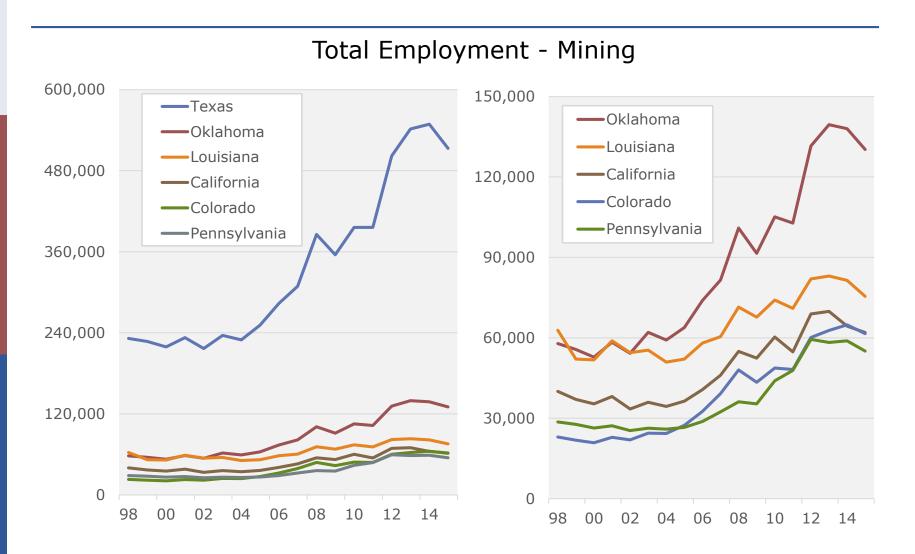


Many big movers, including the largest

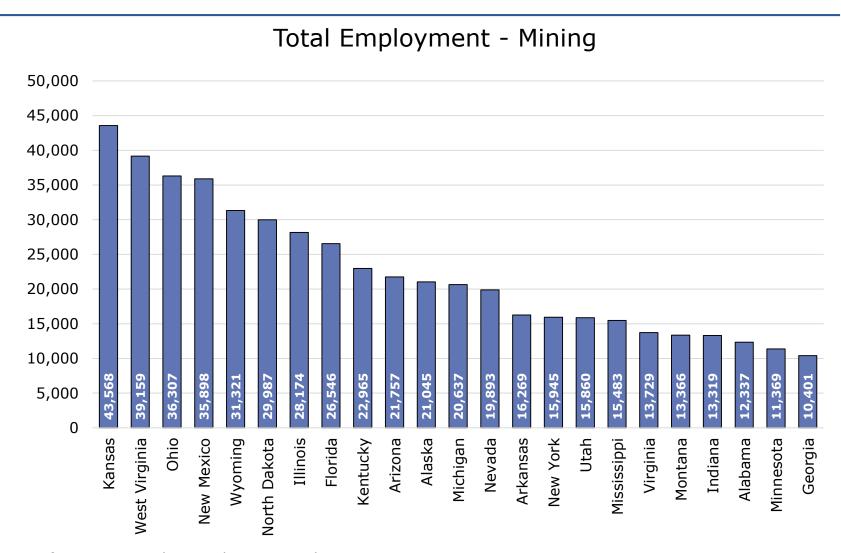
Growth in Household Earnings - Mining



The current Big-6 by total mining employment



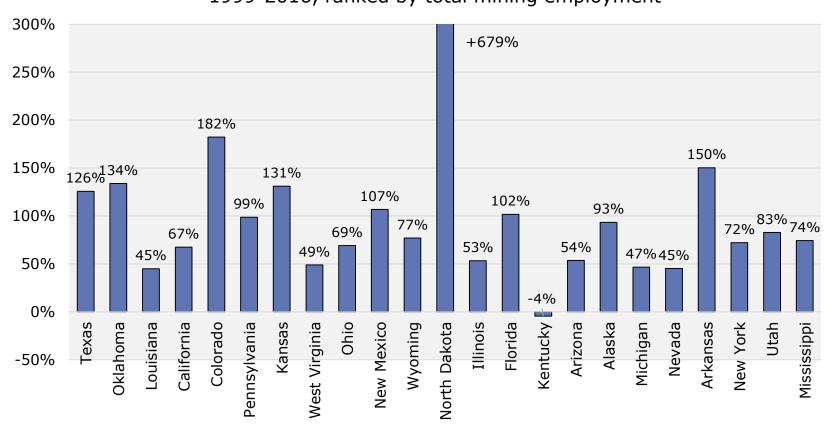
The contenders by employment



Extreme job growth rates highly concentrated too

less volatile overall than earnings

Growth in Total Employment - Mining 1999-2016, ranked by total mining employment



Research going forward

Estimating mining capital spending at the state level

Moving the data analysis to the metro and county levels

Forming estimates of cyclical sensitivity

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